

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF I-97 OFF RAMP AND MD 162A/CROMWELL PARK DRIVE IN ANNE ARUNDEL COUNTY, MARYLAND. MD 162A IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE I-97 SB/MD 162A APPROACHES OPERATING CONCURRENTLY AND CROMWELL PARK DRIVE APPROACH OPERATING ALONE.

EXCLUSIVE LEFT-TURN PHASING IS PROVIDED ON MD 162A APPROACH.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE VIDEO DETECTION.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9001	6 EACH	FURNISH AND INSTALL LED BULBS
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS
9571	75.75 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : <ul style="list-style-type: none">- 1 EACH R3-8(3) (48"x30")- GROUND MOUNT- 1 EACH W3-30(1) (120"x48")- MAST ARM MOUNT- 1 EACH R3-18 (30"x30")- MAST ARM MOUNT MOUNT- 1 EACH SIGN DETAIL 'A' (36"x42")- GROUND MOUNT- 1 EACH W3-3 (36"x36")- MAST POLE MOUNT

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)

STANDARD NO. MD-104.03-01 (SHOULDER WORK)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1003

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013

MR. MIKE HUBER
DISTRICT UTILITY ENGINEER
PHONE: (410) 841-1039

MR. ROBERT SNYDER
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631

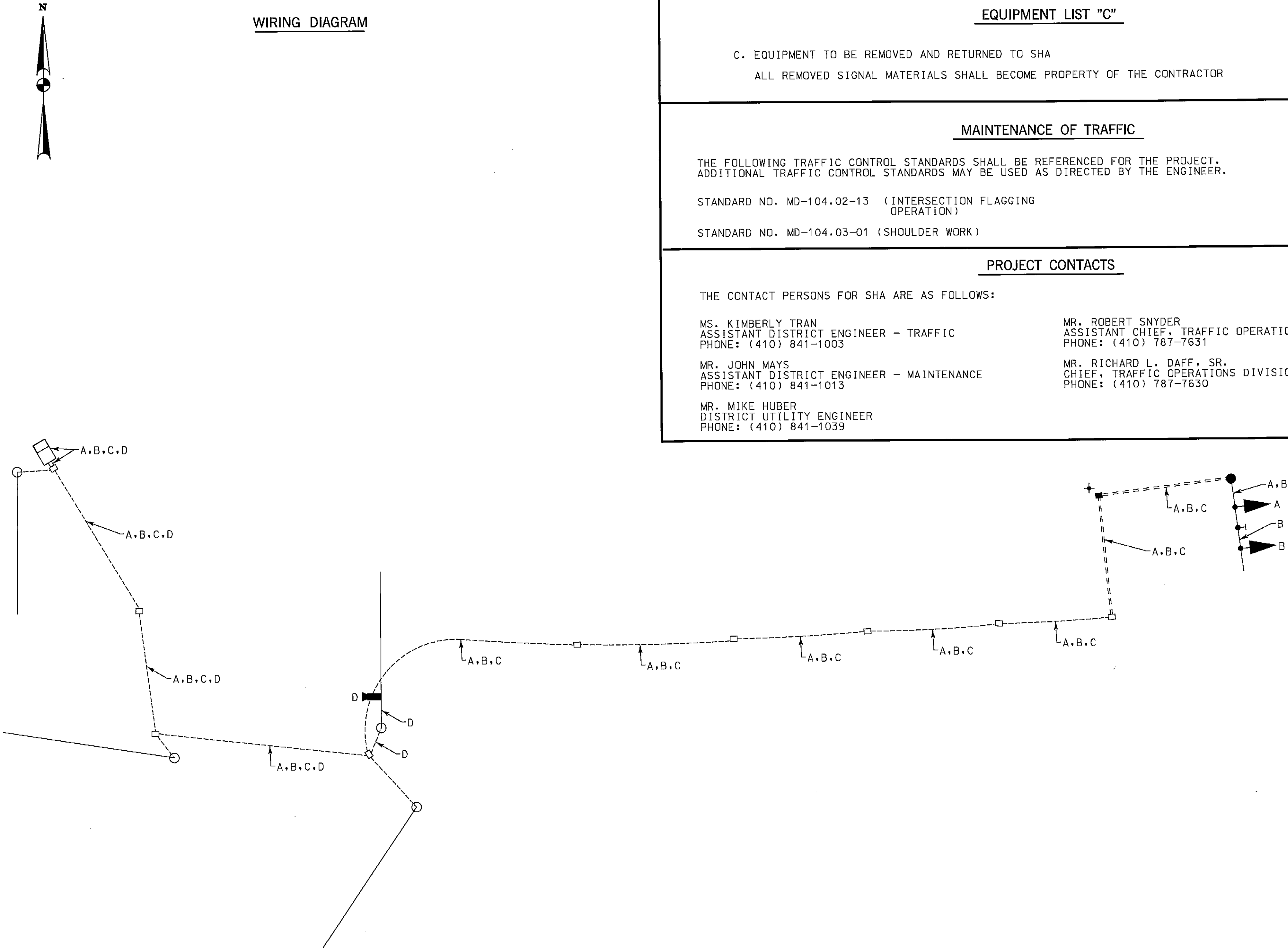
MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	1 C.Y.	TEST PIT EXCAVATION
5002	45 L.F.	5" HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
8001	27 EACH	12 INCH LED SIGNAL HEAD SECTION
8004	6 EACH	8 INCH LED SIGNAL HEAD SECTION
8020	1 EACH	MAST ARM POLE & 70' MAST ARM ANY 'T' DIMENSION
8023	1 EACH	REM & DISPOSE MAT & EQUIP (PER ASSIGNMENT)
8028	1 EACH	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8036	50 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8038	50 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8039	47 L.F.	WOOD SIGN SUPPORTS UP TO 4' X 6'
8040	75.75 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8046	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8051	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8055	2220 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

WIRING DIAGRAM



WIRING KEY

A } 5-CONDUCTOR ELECTRICAL
B } CABLE (NO. 14 A.W.G.)

C } STRANDED BARE COPPER
D } GROUND WIRE (NO. 6 A.W.G.)

D } VIDEO CAMERA DETECTION
LEAD-IN CABLE

⚡ - 3/4 IN. X 10 FT. GROUND ROD

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 1 + 6	←G	←G	←G	G	G	FLY	FLY	R	R	R	←R	R	←R
1 + 6 CHANGE	←Y	←Y	←Y	G	G	DARK	DARK	R	R	R	←Y	R	←Y
PHASE 2 + 6	←R	←R	←R	G	G	DARK	DARK	G	G	G	R	R	R
2 + 6 CHANGE	←R	←R	←R	Y	Y	FLY	FLY	Y	Y	Y	R	R	R
PHASE 4	←R	←R	←R	R	R	FLY	FLY	R	R	R	←G	G	←G
4 CHANGE	←R	←R	←R	R	R	FLY	FLY	R	R	R	←Y	Y	←Y
FLASHING OPERATION	←FLR	←FLR	←FLR	FLY	FLY	DARK	DARK	FLY	FLY	FLY	FLR	FLR	FLR

6A-8P FULL COLOR M-F, SAT. AND SUN.
FLASHING OPERATION ALL OTHER TIMES

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

I-97 SB OFF RAMP @ MD 162A/CROMWELL PARK DR

Glen Burnie, Maryland

GENERAL INFORMATION SHEET

SCALE NONE DATE 10/08/2011 CONTRACT NO. XX6475185

DESIGNED BY L. WAESCHE COUNTY ANNE ARUNDEL

DRAWN BY L. WAESCHE LOGMILE

CHECKED BY N. LEARY TMS NO. L115

F.A.P. NO. TOD NO.

TS NO. 3583B DRAWING TSP-2 OF 2 SHEET NO. 2 OF 2